

Cello XT (I.S.)



Low cost, modular, multi-sensor wastewater monitor.

LTE data logger with multiple sensor combinations allowing the monitoring of sewer level, flow, temperature and infiltration as well as secondary spill verification channels.

Key Features

- 2 channels with various sensor combination options
- Compatible with the RS1 low cost radar and AS1 multi-sensor (angle, temperature, flow and spill verification)
- State input option available for float switches or CSA pressure sensor
- User configurable logging and transmission rates
- Multiple alarm levels available in the logger in addition to user definable virtual server-side alarms
- Bluetooth or cabled comms options
- Wireless setup app option
- User replaceable SIM card
- Low power design provides typically > 5 years battery life
- Protected and tested against water ingress to IP68
- Internal antenna with external antenna options
- User replaceable battery



Technical Specifications

Electrical Inputs	<ul style="list-style-type: none"> – 2 x encoder channels (RS1 Radar, AS1 Angle and Flow, Microflow Velocity, Ultrasonic Level) – 2 x State input / tamper channel
Modem	<p>Antenna: Internal (optional external variant)</p> <ul style="list-style-type: none"> – NB-IoT and LTE Cat M1 frequencies <p>SIM: User replaceable SIM card</p>
Data Transmission	Type: NB-IoT and LTE Cat M1 networks
Serial Port	Type: Full duplex, asynchronous
Memory	<p>Type: Non-volatile</p> <ul style="list-style-type: none"> – Data storage 2000 profile readings and 50 index readings
Clock	<p>Type: Crystal controlled calendar clock with leap year adjustment</p> <ul style="list-style-type: none"> – Synchronises clock to local network at regular intervals
Supply	<p>Life: Typical battery life > 5 years (daily transmission)</p> <ul style="list-style-type: none"> – Internally powered by a single, user replaceable lithium battery – Configuration and data retained during battery replacement
Recording	<p>Interval: Programmable between 1 minute and 1 hour in defined increments</p> <p>Data storage: Rotating store</p>
Alarm Dial-Out	<ul style="list-style-type: none"> – Programmable high and warning / low alarms – Alarm on tamper detection – Low battery alarm – Unlimited, server-side virtual alarms with user customisable logic
Certification	<p>Certified for use in Zone 0 hazardous locations</p> <p>Certificates: CML 23ATEX2440X & IECEx CML 23.0146X & CML 23UKEX2441X Ex ia IIC T4 Ga (Tamb = -20°C to +60°C)</p>
Environmental	<p>Operating ambient temperature: -20°C to +60°C</p> <p>Ingress protection classification: IP68</p>
Mechanical	<p>Dimensions (mm): 199(h) x 127 (w) x 53 (d)</p> <p>Weight: Encoder with 5 cell battery: 0.600 kg Encoder without battery: 0.450 kg</p>

